

## Paint quality: Polyester



### Main features

Reynolux<sup>®</sup> Building pre-painted aluminum sheets offer an outstanding corrosion resistance thanks to our coil-coating technology. The advantages are particularly obvious for large area applications, which place exceptionally high demands on evenness in colours.

Our polyester paint allies the latest polyester technologies, which confer three major advantages:

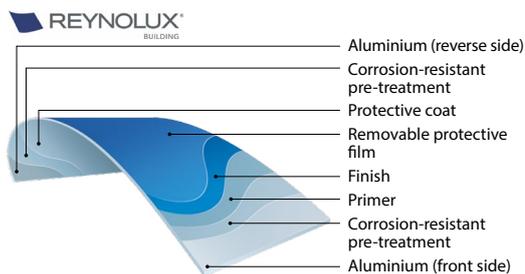
- **Flexibility:** Polyester shows a good flexibility, which is indeed required for transformations such as bending and profiling. Polyester also enables various applications.
- **Aesthetics:** Polyester offers an extensive range of colours and glosses.
- **Durability:** Polyester is well adapted to mild climate. Moreover, our products come with a warranty from 5 to 10 years for an exterior application.

To summarize, our polyester is a multi-purpose product, which offers an excellent price-quality ratio to our customers.



### Applications

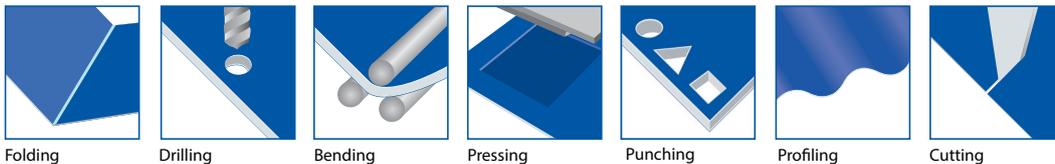
Reynolux<sup>®</sup> Building Polyester paint is especially developed for outdoor applications such as facades and roofs, both in the area of new buildings as well as refurbishment. Reynolux<sup>®</sup> Building can be installed as clapboards, claddings, trapezoidal sheets, sandwich panels, siding, gutters or as cassette systems. Our polyester has also been developed for interior coverings: for ceilings or accessories for instance.



Learn more at [www.reyolux.eu](http://www.reyolux.eu)

### Fabrication

Below you can find the main fabrication methods for Reynolux<sup>®</sup> Building:



### Cleaning

Please refer to the cleaning instructions of the technical datasheet "Maintenance guidelines for Reynolux<sup>®</sup> pre-painted aluminium sheets".

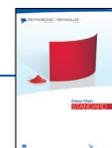
### Manufacturer's particulars and installers qualifications

Our customers are all different and thus have specific needs, as well as specific machines and tools. They should therefore make tests to find the paints and metals that are appropriate to their needs and applications according to their market, as well as to confirm the material they will use.

### References

STANDARD: Plain colours, Metallic

Option: Anti-Bacterial



Performance and durability Reynolux® pre-painted aluminium sheet		1-coat	2-coats
Coating thickness depending on colour	EN 13523 – 1 ASTM D 7091	20 µm	26 µm
Specular gloss	EN 13523 – 2 ASTM D 523	High gloss, satin, matt	
Durability class	NF EN 1396	Class 3: urban and rural, or a bit industrial or slightly marine	
Pencil hardness	EN 13523 – 4 ASTM D 3363	HB – F	
Resistance to cracking on rapid deformation	EN 13523 – 5 ASTM D 2794	No cracking, no loss of adhesion	
Adhesion after indentation	EN 13523 – 6 ASTM D 3359	100 % of adhesion	
Resistance to cracking on bending	EN 13523 – 7 ASTM D 4145	Good flexibility (0.5T), depending on alloy and temper	
Acetic salt spray fog resistance	EN 13523 – 8 ASTM G 85	500 h	1000 h
Water immersion resistance	EN 13523 – 9 ASTM D 870	1000 h	
Humidity resistance	EN 13523 - 25 ASTM D 2247	1000 h	
Mortar test	AAMA 2605	No effect	
Detergent resistance: 3 % VIGOR solution (72 h / 30 °C)	AAMA 2605	No effect	
Colour fastness on natural weathering	Florida Exposure 45° South EN 13523 - 3 ASTM D 2244	After 3 years exposure: Colour variation: 6 to 12 units (ΔE) depending on colour	
Resistance to chalking on natural weathering	Florida Exposure 45° South ASTM D 4214	Rating ≥ 6	
Fire certificates France	NF P 92 – 501	M0 incombustible	
Fire certificates Europe	EN 13501	A1	

### Alcoa, responsible market leader in aluminium

Reynobond® aluminium composite panels and Reynolux® aluminium sheets are fabricated and coated in France based on 50 years of experience. Coil-coating is the most economical, efficient, high-quality and environmentally friendly method for applying coatings to aluminium panels.

As a member of the ECCA (European Coil Coating Association), we comply with the ISO and EN standards in all the countries we supply, and especially with the NF EN 1396: "Aluminium and aluminium alloys. Coil-coated sheet and strip for general applications".

Alcoa also uses environmentally-friendly materials and complies with ISO 14001, which shows the voluntary commitment of the company to reduce its impact on the environment at all levels: water, energy, waste and use of resources. Our Reynolux® coil-coated sheets are 100% recyclable. Moreover we develop continuously by improving the coatings in term of their composition (solvents and pigments), durability and cleaning requirements.

